

March, 2007

3M™ High Performance Double Coated Tape 9086

Product Description

3M™ Double Coated Tapes with 3M™ Adhesive 375 provides a high level of adhesive peel and shear performance. The adhesive system used on these products provides good adhesion to both high and low surface energy substrates. The excellent initial tack ensures that a bond of good integrity is achieved soon after application.



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Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Property	Values		Attribute Modifier
Color	Translucent		
Total Tape Thickness without liner	0.019 mm	7.5 mil	
Adhesive	Modified Acrylic		
Adhesive Carrier	Tissue		
Liner	Paper (Glassine)		
Liner Color	White with Black 3M Logo		Primary
Liner Thickness	0.07 mm	3 mil	

Typical Performance Characteristics

Relative High Temperature Operating Ranges		Test Condition
120 °C	248 °F	Short Term (minutes, hours)
85 °C	185 °F	Long Term (days, weeks)

Property: Relative High Temperature Operating Ranges

180° Peel Adhesion		Substrate
15 N/cm	137 oz/in	ABS
16 N/cm	146 oz/in	Stainless Steel
18 N/cm	162 oz/in	Polycarbonate (PC)
16 N/cm	146 oz/in	Glass
7 N/cm	68 oz/in	High Density Polyethylene (HDPE)
13 N/cm	119 oz/in	High Pressure Laminate

Property: 180° Peel Adhesion
Method: ASTM D3330
Attribute Modifier: Faceside
Dwell/Cure Time: 72
Dwell Time Units: hr
Temp C: 22C
Temp F: 72F
Environmental Condition: 52%RH
Backing: Aluminum Foil
notes: 12 in/min (300 mm/min)

Typical Performance Characteristics (continued)

Property	Values	Method	Test Condition	Notes
Static Shear	10000 min	ASTM D3654	1000 g @ Room Temperature	1 in ² sample size
Static Shear	10000 min	ASTM D3654	500 g @ 70°C (158°F)	1 in ² sample size
Solvent Resistance	Good			
UV Resistance	Excellent			
Plasticizer Resistance	Good			All products show good resistance to plasticizer migration. However due to the wide range of plasticizers available we strongly suggest that an evaluation is conducted prior to use to ensure compatibility. Sampling substrates with tape applied for 10 days at 158°F (70°C) will usually accelerate any potential problems. Plasticizers are typically found in materials such as polyvinyl chloride and some rubber products.

Handling/Application Information**Application Ideas**

- POP Displays
- Plastic Extrusions
- Metal Fabrication
- Blister Packs and Packaging
- Sports Equipment
- Badge and Nameplates
- Indoor/Outdoor Signs
- Fabric and Leather Stitching
- Blind Manufacturers
- Print Finishing
- Furniture Trim
- Splicing

Storage and Shelf Life

Store in original carton at 70°F (21°C) and 50% relative humidity.

If stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Trademarks

3M is a trademark of 3M Company.

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References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-High-Performance-Double-Coated-Tape-9086?N=5002385+3293241869&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9086

Family Group

	9086	9087	9088 to 200	9088F200
Relative High Temperature Operating Ranges (°C) Test Condition: Short Term (minutes, hours)	120	85		
Relative High Temperature Operating Ranges (°C) Test Condition: Long Term (days, weeks)	85	70		
Liner Color Attribute Modifier: Primary	White with Black 3M Logo	White with Green 3M Logo		Red
Color	Translucent	White		
Total Tape Thickness without liner (mm)	0.019	0.26	0.2	0.2
Adhesive	Modified Acrylic	Modified Acrylic		
Adhesive Carrier	Tissue	PVC	PET (Polyester)	PET (Polyester)
Liner	Paper (Glassine)	Paper (Glassine)	58# Glassine	Polypropylene Film
Liner Thickness (mm)	0.07	0.07	0.08	0.08

ISO Statement

This product was manufactured under a quality system registered to ISO 9001 standards.

Information

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